

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE EUGENE A. CONTI, JR.
GOVERNOR SECRETARY

MEMORANDUM TO: Project Engineers

Project Design Engineers

FROM: G. R. Perfetti, PE

State Bridge Design Engineer

DATE: March 11, 2011

SUBJECT: POT BEARING DESIGN LOADS

To facilitate pot bearing design and fabrication, specify the vertical and horizontal design load requirements on the plans in accordance with the AASHTO LRFD Specifications and the following:

Provide unfactored vertical loads at the service limit state, which include the dead load due to components (DC), wearing surface (DW), and live load including impact (LL+IM). In addition, provide the factored horizontal design load, which is the larger of:

- 15% of the total vertical load (DL + LL w/IM) at the service limit state, or
- 25% of the total dead load plus 12.5% of the live load with impact at the service limit state

This policy is effective immediately. Figure 6-124 and Standard Drawing – PB1 have been revised to include the required pot bearing design load information. In addition, Chapter 6 of the Design Manual has been updated.

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